

IN THE U.S. PATENT AND TRADEMARK OFFICE

In re application of

Peter GULDEN et al.

Conf.

Application No. **NEW NATIONAL PHASE**

Group

Filed September 7, 2004

Examiner

METHOD AND ARRANGEMENT FOR IMPROVING MEASURING QUALITY DURING THE  
 OPERATION OF ELECTRO-OPTICAL MIXING DEVICES

**INFORMATION DISCLOSURE STATEMENT  
 (SUBMISSION CONCURRENT WITH THE  
 FILING OF A NEW PATENT APPLICATION)**

Assistant Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

September 7, 2004

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, and in fulfillment of  
 the duty of disclosure under 37 C.F.R. § 1.56, applicant(s) hereby  
 submit(s) an Information Disclosure Statement for consideration by  
 the Examiner.

**I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION**

The patents, publications, or other information submitted for  
 consideration by the Office are listed on PTO-1449, attached  
 hereto.

**II. COPIES**

- ☐ Copies of the U.S. patents or publications are not submitted  
 since the USPTO has waived their submission for applications  
 filed after June 30, 2003.
- ☒ Submitted herewith is a legible copy of (i) each foreign  
 patent; (ii) each publication or that portion which caused it  
 to be listed; and (iii) all other information or that portion  
 which caused it to be listed.
- ☐ This application is a National Phase of a PCT application.  
 Some or all of the documents listed on the PTO-1449 are not  
 enclosed because they were cited in the International Search  
 Report and copies should have been forwarded from the  
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 agreement between the USPTO, EPO and JPO, or they are U.S.  
 patents or U.S. published applications. If copies are needed,  
 please contact the undersigned.

III. CONCISE EXPLANATION OF THE RELEVANCE  
(check at least one box)

a. ☒ **DOCUMENTS IN THE ENGLISH LANGUAGE**

The attached non U.S. patents, non U.S. patent application publications, foreign publications, or other information in the English language do not require a statement of relevancy.

b. ☒ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

Abstracts are provided.

c. ☒ **FOREIGN SEARCH REPORT OR ACTION**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☐ **OTHER**

The following additional information is provided for the Examiner's consideration.


FEEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If The Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned.

Respectfully submitted,

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Enclosures: ☒ Form PTO-1449(s)  
☒ Documents  
☒ Foreign Search Report  
☐ Other: \_\_\_\_\_

\* English language abstract provided for the Examiner's convenience

# **INFORMATION DISCLOSURE CITATION IN AN APPLICATION**

(Use several sheets if necessary)

Attorney Docket No.:

**4001-1187**

Application No.:

**NEW NATIONAL PHASE**

Applicant:

**Peter GULDEN et al.**

Filing Date:

**September 7, 2004**

Group Art Unit:

## **U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing date (if appropriate)

## **FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	DE 195 01 525	4/4/1996	GERMANY				
	DE 100 39 422	2/28/2002	GERMANY				

## **OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Applied Optics, Optical Society of America, Washington, US (10-09-1992), 31(26), 5447-5452 = A.W. Lohmann, NECI and S.O. Sinzinger, NECI, "Improved Array Illuminators", Applied Optics 31(26): 5447-5452, 1992
	Kolobov, M.I., Quantum noise reduction in optical imaging of the spatial coherence of the source. Physical Review A, 1995, 51(2): p. 1656-1661
	Shen, P.H., et al. Interdigitated finger semiconductor photodetector. in SPIE Aerosense, 24-28 April 2000. 2000: SPIE
	Schwarte, R. Dynamic 3-D Vision. in IEEE Int. Symposium on Electron Devices for Microwave and Optoelectronic Applications. 2001. Vienna, Austria: IEEE
	Lam, D.K.W. and R.I. MacDonald, GaAs optoelectronic mixer operation at 4.5 GHz, IEEE Transactions on Electron Devices, 1984. 31(12): p.1766-1768.
	Gulden, P.G., et al. Application of the Photoelectronic Mixing Device to Optical Measurement of Presence, Distance and Velocity. in EuMW. 2000. Paris: EuMW.
	Lohmann, A.W. and S.O. Sinzinger. Spatial Noise Reduction in Array Illuminators. in Optical Computing. 1991. Salt Lake City, Utah

EXAMINER:

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

\* English language abstract provided for the Examiner's convenience